

Rocky Mount Energy Resources
Rocky Mount, North Carolina

Certified Renewable Energy Generating Facility Interface Criteria

Rocky Mount Energy Resources supports the development of renewable resources for generation of electric power. In order to maintain current levels of safety and power quality for the general public, electric system employees and customers, certain criteria must be applied to all alternative sources of electric power.

Specific criteria applying to Certified Renewable Energy Generating Facility (CREGF) installations are as follows:

- ! All CREGF installations must be connected to Energy Resources 's electric system through a separate meter with only the CREGF connected to the source side of the CREGF interconnection meter. See attached installation illustration and single-line diagram.
- ! All CREGF equipment must comply with the requirements of and be labeled under Underwriters Laboratories Standard 1741 "Inverters, Converters, Controllers, and Interconnection Systems Equipment for Use with Distributed Energy Resources".
- ! All CREGF installations must comply with IEEE Standard 929 "IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems".
- ! All CREGF must comply with IEEE Standard 1547 "IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems".
- ! All CREGF must comply with IEEE Standard 1547.1 "IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems".
- ! All CREGF installations shall be made in accordance with the National Electrical Code (NFPA 70). Specific compliance with Article 690 and Article 705 is required. Installations shall be inspected and approved by the local Authority having jurisdiction.
- ! All CREGF installations shall have a service disconnect installed immediately adjacent to the meter for the CREGF. The service disconnect shall be fully accessible to and operable by RMPU's personnel at all times. The service disconnect shall include provisions for locking in the open position. The service disconnect shall be labeled in accordance with NEC 705.10.
- ! All CREGF installations are subject to review and testing by Energy Resources prior to connection and at subsequent times of their choosing.
- ! All interconnected CREGF shall be non-islanding. Systems found to produce voltage when disconnected from the electric distribution system will be disconnected without notice and will remain disconnected until installations are

brought into compliance with specified standards.

- ! CREGF shall not interfere with the power quality of any customer of Energy Resources's distribution system. CREGF found to interfere with utility industry-accepted power quality standards will be disconnected from the system.
- ! Energy Resources will design and install reasonable and practical modifications to the electric distribution system to allow the interconnection of CREGF resources which would otherwise interfere with power quality delivered to other connections. In such cases, the CREGF owner shall make an advance payment to Energy Resources in an amount equal to the cost of the required facility modifications.
- ! All CREGF shall operate within the range of 0.90 lead to 0.90 lag power factor.
- ! Residential CREGF shall be limited to 20 kW maximum ac output. Non-residential CREGF shall be limited to 100 kW maximum ac output. Special provision may be negotiated for larger CREGF installations on an independent connection basis. CREGF larger than 100 kW maximum ac output capacity may require special review, additional testing and special interconnection facilities.
- ! Owners of CREGF shall obtain, and retain in effect as long as the CREGF is interconnected, comprehensive general liability insurance with limits of at least \$300,000 per occurrence for non-residential systems and a standard homeowner's insurance policy with limits of at least \$100,000 per occurrence for residential systems, naming the City of Rocky Mount as an additional insured which protects the insured from claims for bodily injury and/or property damage. This insurance shall be primary for all purposes. The owner shall provide certificates evidencing this coverage as required by Energy Resources.

The rules and references cited above represent the state of CREGF technology in February 2007. Information available subsequent to this writing may result in changes by RMPU in order to protect the safety of the public and Energy Resources's employees; as well as to maintain appropriate levels of power quality for all electric customers.